



SEQUENCE LISTING

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BOWDISH, Dawn
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STEVENS POWERS, Jon-Paul

<120> EFFECTORS OF INNATE IMMUNITY DETERMINATION

<130> UBC1180-2

<140> US 10/661,471

<141> 2003-09-12

<150> US 10/308,905

<151> 2002-12-02

<150> US 60/336,632

<151> 2001-12-03

<160> 66

<170> PatentIn version 3.1

<210> 1

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<212> PRT

<213> Homo sapiens

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Leu Leu Gly Asp Phe Phe Arg Lys Ser Lys Glu Lys Ile Gly Lys Glu
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Phe Lys Arg Ile Val Gln Arg Ile Lys Asp Phe Leu Arg Asn Leu Val
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Pro Arg Thr Glu Ser
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Ile Leu Pro Trp Lys Trp Pro Trp Trp Pro Trp Arg Arg
1 5 10

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Arg Leu Ala Arg Ile Val Val Ile Arg Val Ala Arg
1 5 10

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<222> (3)..(3)

<223> Xaa is one of C, S or A

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1 5 10

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Leu Leu Cys Arg Ile Val Pro Val Ile Pro Trp Cys Lys
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<210> 6

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Leu Arg Cys Pro Ile Ala Pro Val Ile Pro Val Cys Lys Lys
1 5 10

<210> 7

<211> 13

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Lys Ser Arg Ile Val Pro Ala Ile Pro Val Ser Leu Leu
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<210> 8

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Lys Lys Ser Pro Ile Ala Pro Ala Ile Pro Trp Ser Arg

1 5 10

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Arg Arg Ala Arg Ile Val Pro Ala Ile Pro Val Ala Arg Arg
1 5 10

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Leu Ser Arg Ile Ala Pro Ala Ile Pro Trp Ala Lys Leu
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Ser Glu Leu Pro Gly Leu Lys His Pro Cys Val Pro Gly Ser
1 5 10

<210> 14

<211> 14

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Thr Thr Leu Gly Pro Val Lys Arg Asp Ser Ile Pro Gly Glu
1 5 10

<210> 15

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Ser Leu Pro Ile Lys His Asp Arg Leu Pro Ala Thr Ser
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<210> 16

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Glu Leu Pro Leu Lys Arg Gly Arg Val Pro Val Glu
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Asn Leu Pro Asp Leu Lys Lys Pro Arg Val Pro Ala Thr Ser
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Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Trp Xaa Xaa Trp Xaa Xaa Xaa
 1 5 10 15

Xaa Xaa Lys

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Arg Pro Arg Tyr Pro Trp Trp Pro Trp Trp Pro Tyr Arg Pro Arg Lys
 1 5 10 15

<210> 20
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<400> 20

Arg Arg Ala Trp Trp Lys Ala Trp Trp Ala Arg Arg Lys
 1 5 10

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<400> 21

Arg Ala Pro Tyr Trp Pro Trp Ala Trp Ala Arg Pro Arg Lys
 1 5 10

<210> 22
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<400> 22

Arg Pro Ala Trp Lys Tyr Trp Trp Pro Trp Pro Trp Pro Arg Arg Lys
 1 5 10 15

<210> 23

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Arg Ala Ala Phe Lys Trp Ala Trp Ala Trp Trp Arg Arg Lys
 1 5 10

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Arg Arg Arg Trp Lys Trp Ala Trp Pro Arg Arg Lys
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Xaa Xaa Xaa Xaa
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Arg Arg Met Cys Ile Lys Val Cys Val Arg Gly Val Cys Arg Arg Lys
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Cys Arg Lys

<210> 27
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<220>
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<400> 27

Lys Arg Ser Cys Phe Lys Val Ser Met Arg Gly Val Ser Arg Arg Arg
 1 5 10 15

Cys Lys

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Lys Lys Asp Ala Ile Lys Lys Val Asp Ile Arg Gly Met Asp Met Arg
 1 5 10 15

Arg Ala Arg

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<400> 29

Arg	Lys	Met	Val	Lys	Val	Asp	Val	Arg	Gly	Ile	Met	Ile	Arg	Lys	Asp
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Arg Arg

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Lys

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<400> 31

Arg	Arg	Glu	Ala	Ile	Arg	Arg	Val	Ala	Met	Arg	Gly	Arg	Asp	Met	Lys
1				5					10					15	

Arg Met Arg Arg
 20

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<223> Xaa is a polar or charged amino acid (S, T, M, N, Q, D, E, K, R and H)

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<223> Xaa is one of F, I, V, M or R

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 <223> Xaa is R or K

<400> 32

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 1 5 10 15

Xaa

<210> 33
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<400> 33

Arg Thr Cys Val Lys Arg Val Ala Met Arg Gly Ile Ile Arg Lys Arg
 1 5 10 15

Cys Arg

<210> 34
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<400> 34

Lys Lys Gln Met Met Lys Arg Val Asp Val Arg Gly Ile Ser Val Lys
 1 5 10 15

Arg Lys Arg

<210> 35

<211> 17
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<400> 35

Lys Glu Ser Ile Lys Val Ile Ile Arg Gly Met Met Val Arg Met Lys
 1 5 10 15

Lys

<210> 36
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 <212> PRT
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<400> 36

Arg Arg Asp Cys Arg Arg Val Met Val Arg Gly Ile Asp Ile Lys Ala
 1 5 10 15

Lys

<210> 37
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 <212> PRT
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<400> 37

Lys Arg Thr Ala Ile Lys Lys Val Ser Arg Arg Gly Met Ser Val Lys
 1 5 10 15

Ala Arg Arg

<210> 38
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 <212> PRT
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<220>
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<400> 38

Arg His Cys Ile Arg Arg Val Ser Met Arg Gly Ile Ile Met Arg Arg
1 5 10 15

Cys Lys

<210> 39

<211> 31

<212> PRT

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<222> (4)..(4)

<223> Xaa is one of A, L, S or K

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<222> (6)..(6)

<223> Xaa is one of A, L, S or K

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<222> (11)..(11)

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<222> (16)..(16)

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<222> (16)..(31)

<223> Xaa is amino acids chosen from G, A, V, L, I, P, F, S, T, K and H
and one to seventeen may be present

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1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30

<210> 40
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<220>
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<400> 40

Lys Cys Lys Leu Phe Lys Lys Met Leu Met Leu Ala Leu Lys Lys Val
 1 5 10 15

Leu Thr Thr Gly Leu Pro Ala Leu Lys Leu Thr Lys
 20 25

<210> 41
 <211> 26
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 <213> Artificial sequence

<220>
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<400> 41

Lys Ser Lys Ser Phe Leu Lys Met Leu Met Lys Ala Leu Lys Lys Val
 1 5 10 15

Leu Thr Thr Gly Leu Pro Ala Leu Ile Ser
 20 25

<210> 42
 <211> 27
 <212> PRT
 <213> Artificial sequence

<220>
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<400> 42

Lys Thr Lys Lys Phe Ala Lys Met Leu Met Met Ala Leu Lys Lys Val
 1 5 10 15

Val Ser Thr Ala Lys Pro Leu Ala Ile Leu Ser
 20 25

<210> 43
 <211> 32
 <212> PRT

<213> Artificial sequence

<220>

<223> Cationic peptide

<400> 43

Lys Met Lys Ser Phe Ala Lys Met Leu Met Leu Ala Leu Lys Lys Val
1 5 10 15

Leu Lys Val Leu Thr Thr Ala Leu Thr Leu Lys Ala Gly Leu Pro Ser
20 25 30

<210> 44

<211> 25

<212> PRT

<213> Artificial sequence

<220>

<223> Cationic peptide

<400> 44

Lys Asn Lys Ala Phe Ala Lys Met Leu Met Lys Ala Leu Lys Lys Val
1 5 10 15

Thr Thr Ala Ala Lys Pro Leu Thr Gly
20 25

<210> 45

<211> 26

<212> PRT

<213> Artificial sequence

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<223> Cationic peptide .

<400> 45

Lys Gln Lys Leu Phe Ala Lys Met Leu Met Ser Ala Leu Lys Lys Lys
1 5 10 15

Thr Leu Val Thr Thr Pro Leu Ala Gly Lys
20 25

<210> 46

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<222> (1)..(26)
 <223> Xaa at residues 4, 7, 8, 10, 11,14, 15 is a hydrophobic amino acid

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 <222> (1)..(26)
 <223> Xaa at residues 5, 6, 9, 12, 13 is a hydrophilic amino acid

<400> 46

Lys Trp Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ile
 1 5 10 15

Phe His Thr Ala Leu Lys Pro Ile Ser Ser
 20 25

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<220>
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<400> 47

Lys Trp Lys Ser Phe Leu Arg Thr Phe Lys Ser Pro Val Arg Thr Ile
 1 5 10 15

Phe His Thr Ala Leu Lys Pro Ile Ser Ser
 20 25

<210> 48
 <211> 26
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<220>
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<400> 48

Lys Trp Lys Ser Tyr Ala His Thr Ile Met Ser Pro Val Arg Leu Ile
 1 5 10 15

Phe His Thr Ala Leu Lys Pro Ile Ser Ser
 20 25

<210> 49
 <211> 26
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<220>

<223> Cationic peptide

<400> 49

Lys	Trp	Lys	Arg	Gly	Ala	His	Arg	Phe	Met	Lys	Phe	Leu	Ser	Thr	Ile
1				5					10					15	

Phe	His	Thr	Ala	Leu	Lys	Pro	Ile	Ser	Ser
			20					25	

<210> 50

<211> 26

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<220>

<223> Cationic peptide

<400> 50

Lys	Trp	Lys	Lys	Trp	Ala	His	Ser	Pro	Arg	Lys	Val	Leu	Thr	Arg	Ile
1				5					10					15	

Phe	His	Thr	Ala	Leu	Lys	Pro	Ile	Ser	Ser
			20					25	

<210> 51

<211> 26

<212> PRT

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<220>

<223> Cationic peptide

<400> 51

Lys	Trp	Lys	Ser	Leu	Val	Met	Met	Phe	Lys	Lys	Pro	Ala	Arg	Arg	Ile
1				5					10					15	

Phe	His	Thr	Ala	Leu	Lys	Pro	Ile	Ser	Ser
			20					25	

<210> 52

<211> 26

<212> PRT

<213> Artificial sequence

<220>

<223> Cationic peptide

<400> 52

Lys	Trp	Lys	His	Ala	Leu	Met	Lys	Ala	His	Met	Leu	Trp	His	Met	Ile
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1 5 10 15

Phe His Thr Ala Leu Lys Pro Ile Ser Ser
20 25

<210> 53
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<220>
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<400> 53

Lys Trp Lys Ser Phe Leu Arg Thr Phe Lys Ser Pro Val Arg Thr Val
1 5 10 15

Phe His Thr Ala Leu Lys Pro Ile Ser Ser
20 25

<210> 54
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<220>
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<400> 54

Lys Trp Lys Ser Tyr Ala His Thr Ile Met Ser Pro Val Arg Leu Val
1 5 10 15

Phe His Thr Ala Leu Lys Pro Ile Ser Ser
20 25

<210> 55
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<212> DNA
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<400> 55

gtccctgtat gcctctggtc

20

<210> 56
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<223> PCR amplification primer

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gatgtcacgc acgatttcc 19

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<223> CpG oligonucleotide

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<223> nonCpG oligonucleotide

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tgcttccata gggacatcat a 21

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gcgcagaatg agatgagttg 20

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gtgcagaggg ttgtggagaa g 21

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